



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.9502

Job Sheet 166723



Part No: 646.9502

Job Qty: 1 ea

Part Name: 206A/B/L-Series Cable Cutter System, Low



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 10/16/17

Job Tracking No:

Due Date: 10/26/17

Created By: Victoria Michaud-Febrille

Type: Stock

Description:

Customer: L3 Army Fleet Support LLC (CARMY01)

Army Fleet Support Cairns Field Bldg 30300 Specker Street Fort Rucker, AL, 36362 USA ph:(334) 255-8373

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Due Date	Standard		Workcenter/Supplier	
				Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time
90	Start up Operation	1 Ea	10/26/17	0.00	0.00	Start up container	NOV 1 6 2017
110	Packaging	1 pcs	10/26/17	0.00	0.00	Packaging1	NOV 1 6 2017
120	QC	1 pcs	10/26/17	0.00	0.00	QC4	
125	DC	1 pcs	10/26/17	0.00	0.00	DC	
130	Packaging	1 pcs	10/26/17	0.00	0.00	Packaging3	
140	QC21-FG	1 Ea	10/26/17	0.00	0.00	QC21	

Part Op 125 - Photocopy bluefile & type labels per PPP 646.9502

Descriptions: 130 - Identify and pack for shipping as per PPP 646.9502 Location :FG101

NOV 2 2 2017

fs 102

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	600.0990	1	17	0	0
	600.0991	1	5	0	0
	600.1012	1	11	0	0
	646.9601	1	4	0	0
	646.9603	1	2	0	0
	646.9810	1	2	0	0
	646.9910	4	0	0	0
	647.0110	1	2	0	0
	647.0111	1	19	0	0
	647.0112	8	161	0	0
	647.0113	2	34	0	0
	647.0114	1	44	0	0
	647.0115	1	39	0	0
	647.0116	2	42	0	0
	647.0210	1	1	0	0
	647.0310	2	17	0	0
	647.0410	1	20	0	0
	647.1210	1	21	0	0
	AN3-10A	8	38	0	0
	AN3-11A	8	77	0	0
	AN3-3A	1	96	0	0
	AN743-13	1	27	0	0
	CCR264SS-3-06	8	207	0	0
	CCR264SS3-04	12	57	0	0
	CCR264SS3-2	4	100	0	0

600.0990
600.0991
exp. 1 feb. 2018

600.1012
exp. 02/2018

5010017

5009474

QA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td style="width: 25%;">Skid-tube ☐</td> <td style="width: 25%;">Cross tube ☐</td> <td style="width: 25%;">Water Jet ☐</td> <td style="width: 25%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>			Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																	
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																	
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																	
Large Fab ☐	Composite ☐	Supplier ☐																		
Date : _____	QTY Effective : _____		MRB (QS1042) Approval																	
Description W	Disposition			Completed By																
Start up operation Job No: 166723 Mfg Date: 11/16/17 646.9502 Operation: 206A/B/L - Series Cable Cutter System, Low Revision: 1 PART NO: 206A/B/L - Series Cable Cutter System, Low Change No: 1 SO10500 DART AEROSPACE Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 TEL: 1 613 632-5200 Email: sales@dartaero.com www.dartaerospace.com				Lead hand / Supervisor Approval Verification																
				QC / QA Coordinator Approval																
				<table style="width: 100%;"> <tr> <td style="width: 50%;"> Root C Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ </td> <td style="width: 50%;"> Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐ </td> </tr> </table>				Root C Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐											
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<table style="width: 100%;"> <tr> <td style="width: 50%;"> Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ </td> <td style="width: 50%;"> er Loss/Surge ☐ io/Program ☐ ain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐ </td> </tr> </table>				Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	er Loss/Surge ☐ io/Program ☐ ain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabelled ☐ Fit/Function ☐ Misaligned/off center ☐															
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OTHER : _____																				

✓ CR3212-4-4	14	1	390	0	0
✓ CR3212-5-4	5009179	8	123	0	0
✓ CR3213-4-05	5009173	26	294	0	0
✓ CR3213-4-1	5007155	14	300	0	0
✓ CR3213-4-2	5009098	18	343	0	0
✓ CR3213-4-3	5009103	18	370	0	0
5009078 ✓ CR3213-4-4	04	19	250	0	0
✓ CR3213-4-6	5009074	20	397	0	0
✓ MS21042-08	5009070	54	0	0	0
✓ MS21042-3	5009057	17	0	0	0
✓ MS21047-3	5009052	6	233	0	0
✓ MS21059-3	5009049	2	411	0	0
✓ MS21059L08	5009046	4	62	0	0
✓ MS24694-S8	5009045	5	185	0	0
✓ MS27039-08-06	5008095	4	25	0	0
✓ MS27039-08-09	5008094	4	148	0	0
✓ MS27039-08-11	5008090	43	1,598	0	0
✓ MS27039-08-12	5008086	2	696	0	0
✓ MS27039-08-13	5008078	6	191	0	0
✓ MS27039-1-08	5008067	5	515	0	0
✓ MS27039-1-11	5008062	5	240	0	0
✓ MS35842-11	5008058	1	39	0	0
✓ NAS1149F0332P	5008056	62	3,231	0	0
50080972 ✓ NAS1149FN832P	5008055	111	4,525	0	0
✓ NAS1835-08	50070352	4	149	0	0

Part Specifications

Specifications could not be found.

Plex 10/16/17 10:28 AM dart.Michaud-Febrille.Victoria

WORK ORDER NON-CONFORMANCE / UPDATE

_____ Date: _____

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

REFERENCE ONLY

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

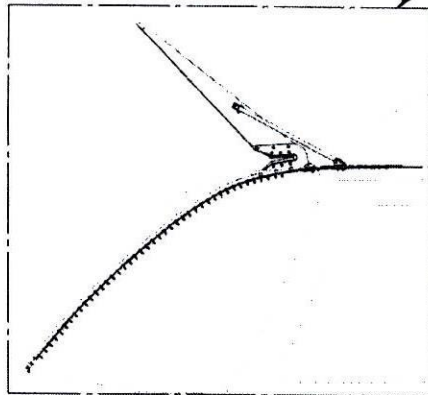
NOTES:

1 AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

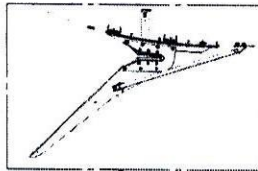
UNINCORPORATED ECN(S)

02729, 02736, 03047

DETAIL A



DETAIL B



QTY	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
1	1	49	601.1066 RIVET	CR3212-4-4	
1	1	48	600.0991 MAGNABOND 6398 PART B		
1	1	47	600.0990 MAGNABOND 6398 PART A		
1	1	46	600.1012 SEALANT	PR-1452 CLASS B	
5	5	45	601.1949 SCREW	MS27039-1-11	
2	2	44	601.2989 SCREW	MS27039-0812	
4	4	43	601.2987 SCREW	MS27039-0809	
4	4	42	601.3000 SCREW	MS27039-0806	

REV	DESCRIPTION	DATE	APPROVED
LAST PROTOTYPE REVISION P02			
NAC	FINAL RELEASE	DATE/OP	P. SPAYD

47	47	41	601.2893	SCREW	MS27039-0811
1	1	40	601.2982	HOSE CLAMP	MS35042-11
1	1	39	647.1210	SCREEN	
5	5	38	601.1621	SCREW	MS27039-1-08
14	14	37	601.2979	RIVET	CR3213-4-1
4	4	36	601.2984	INSERT	MS1835-08
4	4	35	601.2277	RIVET	CCP2445-049
8	8	34	601.2983	RIVET	CR3212-5-4
12	12	33	601.2980	NUTPLATE RIVET	CCP2445-041
1	1	32	601.2822	BOLT	AN3-3A
1	1	31	601.2985	BRACKET	AN762-13
2	2	30	601.1900	NUTPLATE	MS21059-3
6	6	29	601.2988	SCREW	MS27039-0813
53	53	28	601.2973	LOCKNUT	MS21042-08
6	6	27	600.0795	NUTPLATE	MS21047-3
18	18	26	601.0790	RIVET	CR3213-4-3
18	18	25	601.1039	RIVET	CR3213-4-2
19	19	24	601.1915	RIVET	CR3213-4-4
20	20	23	601.2991	RIVET	CR3213-4-6
26	26	22	601.1183	RIVET	CR3213-4-5
4	4	21	601.2356	NUTPLATE	MS21059-08
8	8	20	601.2981	NUTPLATE RIVET	CCP2445-040
17	17	19	601.2943	LOCKNUT	MS21042-5
16	16	18	601.2826	BOLT	AN3-11A
46	46	17	601.1607	WASHER	MS11470832P
114	114	16	601.2764	WASHER	MS11470832P
1	1	15	647.0115	CLIP	
1	1	14	647.0114	CLIP	
1	1	13	647.0410	TUBE	
2	2	12	647.0116	DOUBLER	
1	1	11	647.0111	PANEL	
2	2	10	647.0113	STRUT DOUBLER	
8	8	9	647.0112	STRUT BRACKET	
4	4	8	646.9910	STRUT	
2	2	7	647.0310	CHANNEL	
1	1	6	647.0110	ROOF DOUBLER	
1	1	5	647.0210	RAIL	
1	1	4	646.9810	DEFLECTOR	
1	1	3	646.9603	LOWER CUTTER ASSY LOW	
1	1	2	646.9602	LOWER CUTTER ASSY HIGH	
1	1	1	646.9601	UPPER CUTTER ASSY	
			646.9502	206 CABLE CUTTERS KIT LOW	
			646.9501	206 CABLE CUTTERS KIT HIGH	

QTY	DESCRIPTION	MAT'L	SPEC.
NEXT ASSY (S)			
ORIGINAL DATE	DESIGNED BY	ENGINEER	
DRAWN BY	D. BORANO	D. BARNER	
APPROVAL			
CONTRACTING			
UNLESS OTHERWISE SPECIFIED			
ALL DIMENSIONS ARE IN INCHES			
2 PLACE DECIMALS & 0.01			
3 PLACE DECIMALS & 0.001			
ANGLES > 90°			

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

206 CABLE CUTTERS KIT

SCALE NONE

SHEET 1 OF 3

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736			SHEET 1 OF 1	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT				
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: CORRECTED PARTS LIST ERRORS				

REFERENCE ONLY

17	R	601.1607	62	62	WASHER	NAS1149F0332P
16	R	601.2764	111	111	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: HARDWARE REVISIONS FROM FIRST INSTALL				

REFERENCE ONLY

51	A	601.3155	8	8	BOLT	AN3-10A	
50	A	601.3153	5	5	SCREW	MS24694S8	
41	R	601.2893	43	43	SCREW	MS27039-0811	
28	R	601.2973	54	54	LOCKNUT	MS21042-08	
18	R	601.2826	8	8	BOLT	AN3-11A	
16	R	601.2764	127	127	WASHER	NAS1149FN832P	
			9502	9501			
F/N	TC	PART NUMBER	QTY	DESCRIPTION		MATERIAL/SPECIFICATION	
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						☐ MAJOR ☒ MINOR	☐ YES ☒ NO